

EXHIBIT 1



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Product Description

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Bacteria

ATCC® Number: 35695™

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Price: \$155.00

Organism: *Escherichia coli* (Migula) Castellani and Chalmers

Designations: MC4100

Depositor: GM Weinstock

History: ATCC<<---GM Weinstock <<---T.
Silhavy <<--- M. Casadaban

Biosafety Level: 1

Shipped: freeze-dried

Growth Conditions: ATCC medium 1065; LB medium
Temperature: 37.0C

Permits/Forms: In addition to the [MTA](#) mentioned above, other [ATCC and/or regulatory permits](#) may be required for the transfer of this ATCC material. Anyone purchasing ATCC material is ultimately responsible for obtaining the permits. Please [click here](#) for information regarding the specific requirements for shipment to your location.

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Genotype: F- araD139 delta(argF-lac)U169 rpsL150 relA1 deoC1 rbsR fthD5301 fruA25 lambda-

Comments: Bacteriophage host
host for lac+ plasmids or lambda phage

Applications: transformation host

References: 11033: Bremer E, et al. Alpha placMu: a transposable derivative of bacteriophage lambda for creating lacZ protein fusions in a single step. J. Bacteriol. 158: 1084-1093, 1984. PubMed: [6327627](#)
11574: Casadaban MJ. Transposition and fusion of the lac genes to selected promoters in *Escherichia coli* using bacteriophage lambda and mu. J. Mol. Biol. 104: 541-555, 1976. PubMed: [781293](#)
41561: Perkins JD, et al. XbaI and BlnI genomic cleavage maps of *Escherichia coli* K-12 strain MG1655 and comparative analysis of other strains. J. Mol. Biol. 232: 419-445, 1993. PubMed: [8393935](#)

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